BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAAPURA

Name of Work: *Estimate for Maintenance and Repair of Burial Grounds in Ward No. 10, (Doddabommasandra).*

Job Code: 010-20-000066

P-Code: P-3291

Estimated Cost: Rs. 10.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Maintenance And Repair of Burial Grounds in Ward No. 10 (Doddabommasandra).

								Estimation Cost.Rs	1000000.00
Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
1	KSRB 2-2.4:Earth work for lowering and levelling the ground other than foundation works by mechanical means upto 3.00 depth, including providing shoring strutting and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavated earth to the extent required & utilising/transporting the remaining earth upto 1.00 km lead. Including the cost of labour & HOM as per drawing and technical specification. (pg no.8, I/No2.24,)								
		Cum	1	30.00	48.00	0.30	432.00		
	Basic rate							61.00	
	Area weightage 8%							4.88	
	5Km lead & Lift= 57+(2*1.28*5)							69.80	
	Total						**432.00**	**135.68**	**58613.76**
2	KSRB 2-2.1:: Earthwork excavation for foundationof buildings, water supply and sanitary lines and electrical conduitsetc, either in pits or in trenches 1.5m and above in width, in soil notexceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.. No. KBS 2.1(b) / 2.3.5 (pg no.6, I/No2.4,)								
	Compound Wall								
	Front side	Cum	1	18.00	1.20	1.50	32.40		
	left Side	Cum	1	22.70	1.20	1.50	40.86		
	For columns								
	Right Side	Cum	2	1.20	1.20	1.50	4.32		
	Basic rate							229.00	
	Area weightage 8%							18.32	
	5Km lead & Lift= 57+(2*1.28*5)							69.80	
	Total						**77.58**	**317.12**	**24602.17**
3	KSRB 4-1.2 : Providing and laying in position plain cement concreteof Mix 1:4:8 with OPC @ 220kgs, with 40mm and down size gradedgranite metal coarse aggregates @0.892cum and fine aggregates @0.465cum machine mixed, machine mixed, concrete laid in layers notexceeding 15 cms. thick, well compacted, in foundation, including costof all materials, labour, HOM curing complete as per specifications.Specification No. KBS 4.1, 4.2 (pg No.13.I.No.4.2)								
	Compound Wall								
	Front side	Cum	1	18.00	1.20	0.15	3.24		
	left Side	Cum	1	22.70	1.20	0.15	4.09		
	For columns								
	Right Side	Cum	2	1.20	1.20	0.15	0.43		
	Flooring								
	Front Side Floor	Cum	1	20.00	8.00	0.125	20.00		
	Basic rate							5194.00	
	Area weightage 8%							415.52	
	Total						**27.76**	**5609.52**	**155709.06**
4	KSRB 5.2-3 : - Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (P.No.25- I.No.5.6)								
	Compound Wall								
	First course								
	Front side	Cum	1	18.00	0.60	0.60	6.48		
	left Side	Cum	1	22.70	0.60	0.60	8.17		
	Second course								
	Front side	Cum	1	18.00	0.50	0.45	4.05		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	left Side	Cum	1	22.70	0.50	0.45	5.11		
	Basic rate							4596.00	
	Area weightage 8%							367.68	
	Total						**23.81**	**4963.68**	**118182.74**
5	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. No. KBS 4.6.2 (P.No.16 - I.No.4.31)								
	For plinth beam								
	Front side	Sqm	2	18.00		0.30	10.80		
	left Side	Sqm	2	22.70		0.30	13.62		
	Basic rate							358	
	Area weightage 8%							28.64	
	Total						**24.42**	**386.64**	**9441.75**
6	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting,propping etc., and removal of form work for columns, pillars, postand struts, square / rectangular/ polygon in plan including cost of allmaterials, labour complete as per specifications.Specification No. KBS 4.6.2 (P.No.16 - I.No.4.32)								
	For plinth beam								
	columns For Main Gate								
	For columns	Sqm	4	0.30		2.80	3.36		
	Basic rate							456	
	Area weightage 8%							36.48	
	Total						**3.36**	**492.48**	**1654.73**
7	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of Design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters,columns, pillars,posts,struts,buttresses,bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications.(P.No.14- I.No.4.10)								
	For plinth beam								
	Front side	Cum	1	18.00	0.30	0.30	1.62		
	left Side	Cum	1	22.70	0.30	0.30	2.04		
	Footing For Main Gate								
	For columns	Cum	2	1.10	1.10	0.40	0.97		
	columns For Main Gate								
	For columns	Cum	2	0.30	0.30	2.80	0.50		
	Basic rate							5812	
	Area weightage 8%							464.96	
	Total						**5.14**	**6276.96**	**32232.19**
8	KSRB M2200-6 Providing T.M.T bars Fe 550 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200 (Pg No.229 Item No.28.8.3)								
		Cum					5.14		
		kg	Steel assumed 100Kg/Cum of Concrete				513.50		
		tonne					**0.51**		
	Basic rate							68812	

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Area weightage 8%							5504.96	
	Total						**0.51**	**74316.96**	**38161.76**
9	KSRB 5-14: Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part-1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. blocks of size 400x200x200mm KBS No.5.4 (P.No-27,I No-5.26.1)								
	Front side	Sqm	1	18.00		1.80	32.40		
	left Side	Sqm	1	22.70		1.80	40.86		
	Basic rate							**962.00**	
	Area weightage 8%							76.96	
	Total						**73.26**	**962.00**	**70476.12**
10	KSRB15-3.8 : Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (P.No-116,I No-15.16)								
	Front side	Sqm	2	18.00		1.80	64.80		
	left Side	Sqm	2	22.70		1.80	81.72		
	left Side	Sqm	2	34.60		1.80	124.56		
	Back side	Sqm	2	18.40		2.40	88.32		
		Sqm	1	17.20		1.50	25.80		
	Right Side	Sqm	2	17.80		2.40	85.44		
	columns For Main Gate								
	For columns	Sqm	8	0.30		2.00	4.80		
	Basic rate							**261.00**	
	Area weightage 8%							20.88	
	Total						**475.44**	**281.88**	**134017.03**
11	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. (P.No-120,I No-15.53.2)								
	Front side	Sqm	2	18.00		1.80	64.80		
	left Side	Sqm	2	22.70		1.80	81.72		
	left Side	Sqm	2	34.60		1.80	124.56		
	Back side	Sqm	2	18.40		2.40	88.32		
		Sqm	1	17.20		1.50	25.80		
	Right Side	Sqm	2	17.80		2.40	85.44		
	columns For Main								
	For columns	Sqm	8	0.30		2.00	4.80		
	Basic rate							102.00	
	Area weightage 8%							8.16	
	Total						**475.44**	**110.16**	**52374.47**
12	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specification. (P.No-45,I No-7.37)								
	Main Gate	Sqm	1	5.00		2.10	10.50		
	Basic rate							3012.00	
	Area weightage 8%							240.96	

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Total						**10.50**	**3252.96**	**34156.08**
13	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. (P.No-123,I No-15.74)								
	Main Gate	Sqm	2	5.00		2.10	21.00		
	Basic rate							95.00	
	Area weightage 8%							7.60	
	Total						**21.00**	**102.60**	**2154.60**
14	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire chargedof machines,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.176Item No.22.6.1								
	Flooring								
		Cum	1	20.00	7.80	0.10	15.60		
	Basic rate							4916.00	
	Area weightage 6%							294.96	
	Total						**15.60**	**5210.96**	**81290.98**
15	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge								
	Drain cover slab								
	1st Cross Road	Sqm	1	9.80	1.50		14.70		
	Data rate							5418.00	
	Total						**14.70**	**5418.00**	**79644.60**
								GRAND TOTAL	**892712.03**
								GST CHARGES 12%	**107125.44**
								MISCELLENIOUS AND ROUNDING	**162.53**
								TOTAL AMOUNT	**1000000.00**
									RUPEES TEN LAKHS ONLY

TECHNICAL SANCTION
Accepted Rs 10,00,000/-
Head of A/c P8361
Div. Ref. No. 35/2020-21 Date 21/4/2020
AE 24/04
EE(BTP) 24/04

Administrative Approval
Accorded For Rs 10.00 lakhs only
Head of A/c P3291
CER NO : 262 Dt: 27.03.2020

TA CE (VNK)

CERTIFICATE:

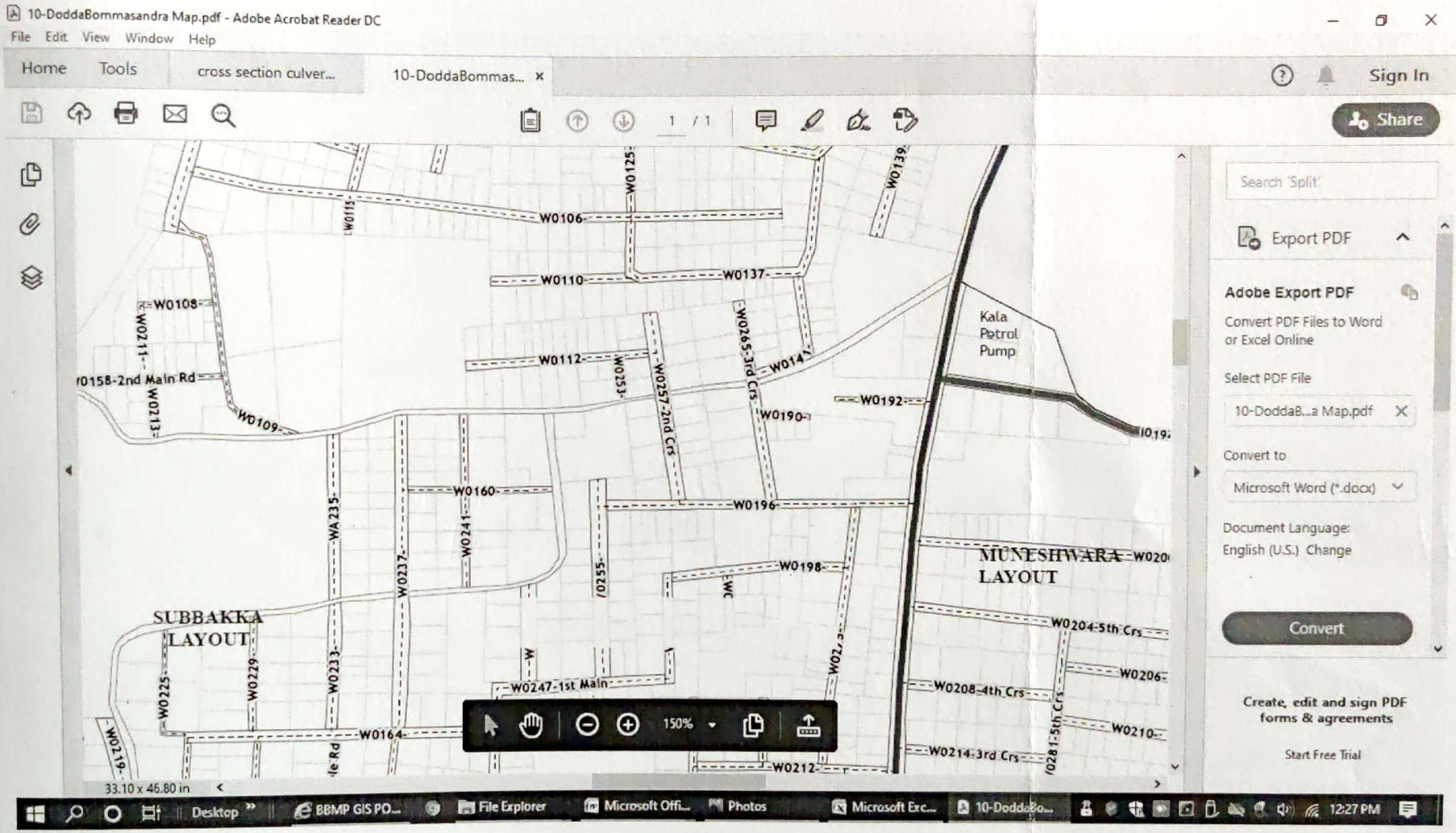
1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Sweetha.N.K
Assistant Engineer

Assistant Executive Engineer
Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Executive Engineer
Assistant Executive Engine
Vidyaranyapura Sub Divisi
BBMP, Bangalore - 97

Name of work : Maintenance and Repair of Burial Grounds in Ward No. 10, (Doddabommasandra).



Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Vidyaranyapura Sub Division